

Amendments to the Claims

In this reply, the following listing of claims replace all previous versions of claims in the application and keep the same content with previous claims except the current cancelled claim 4,7,8 in the application.

Listing of Claims

1. (previously presented) A method for closed-loop regeneration of food for humans during a long term mission in space, comprising:

freezing fly eggs in liquid nitrogen;  
bringing the frozen fly eggs on the long term mission;  
thawing some of the fly eggs in space;  
rearing maggots and pupa in space from the thawed fly eggs by feeding the maggots human waste and plant crop waste;  
preparing a powder from the maggots that have been reared;  
and  
feeding the maggot powder to the humans as food.

2. (previously presented) cancelled

3. (previously presented) The method defined in claim 1, further comprising using the maggots as a carrier by feeding the maggots with vitamins, minerals, electrolytes and antibiotics that the humans need.

4. (currently amended) cancelled

5. (previously presented) cancelled

6. (previously presented) The method defined in claim 1, further comprising:

using the maggots, the pupa, and the maggot powder as feedstuff for poultry, aquatic animals, amphibians, and livestock; and

using the poultry, aquatic animals, amphibians, livestock and their eggs as nourishing food for the humans in space.

7. (currently amended) cancelled.

8. (currently amended) cancelled.

9. (previously presented) The method defined in claim 1, further comprising:

raising animals by feeding the animals the maggots and pupa while alive and by feeding the animals the maggot powder; and

using the animals and the maggot powder as healthy food for the humans to assist in resisting radiation and improving immune abilities.